

Summary of radar application to modeling breakout session

- ▶ We had an extensive discussion on how radar output can be used for cumulus and microphysics development.
- ▶ It is noted that better documentation cloud morphology is necessary for parameterization development. We need to look at what cloud populations look like in model and observations? We should not limit ourselves to domain mean fields.
- ▶ Large sample size is required, but data-sets can probably be combined (DYNAMO, TOGA-COARE, Kwajalein, etc, not necessarily one long record).
- ▶ We need better understanding of the PID product from the S-Pol for meaningful comparison with model hydrometeorology.
- ▶ We also need to think about how to utilize the latent heating and divergence profiles derived from SMART-R echoes.
- ▶ We also need to engage more modelers, cu and microphysics scheme developers etc.



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